

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (original): Method for controlling the operating point of a transistor of a power amplifier for amplifying time division multiplex (access) TDM(A)-signals, comprising the steps of:

- detecting a deviation between a set operating point and an actual operating point of said transistor;

- detecting the occurrence of said null power time slots or using the knowledge when they occur; and

- adjusting the bias of the gate/base of said transistor according to said deviation in order to re-establish said set operating point;

wherein

these steps are carried out during separate null power time slot of said TDM(A)-signals.

2. (original): Method according to claim 1, wherein the step of adjusting the bias optionally comprises the substep of:

- checking the adjustment of the bias.

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3. (currently amended): Method according to ~~one of the preceding claims~~claim 1, wherein the null power time slots to be used arise consecutively or not within said TDM(A)-signal.

4. (currently amended): Method according to ~~one of the preceding claims~~claim 1, wherein the adjustment of the bias is carried out iteratively during several control loops.

5. (currently amended): Method according to ~~one of the preceding claims~~claim 1, wherein the set operating point is adapted in response to the temperature in the surrounding of the transistor.

6. (currently amended): Method according to ~~one of the preceding claims~~claim 1, wherein bias means the gate/base voltage for driving the gate/base of the transistor.

7. (currently amended): Method according to ~~one of the preceding claims~~claim 1, wherein the controlling of the operating point of the transistor is done only after the transistor has reached a steady state with respect to its temperature after a switch-on of the power amplifier.

8. (original): Method according to claim 7, wherein the controlling of the operating point is started after N, e. g.  $N = 3$ , null Power time slots have occurred.

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9. (currently amended): Computer program for a controlling unit of a Power amplifier, comprising code being adapted to carry out the method according to ~~one of claims 1—~~  
claim 1 when running on a microprocessor.

10. (original): Computer program according to claim 9, wherein the code is stored on a computer-readable storage medium.

11. (original): Power amplifier for amplifying time division multiplex (access) TDM(A)-signals in a TDM(A) system, in particular in a Global System for Mobile Communications GSM, comprising

a transistor for amplifying said TDM(A)-signals;

a shunt being connected in series to the drain-source path or collector-emitter path of said transistor for providing a measurement voltage, the constant component of which representing the actual operating point of said transistor; and

a controlling unit for detecting a deviation between a set operating point and said actual operating point, for detecting the occurrence of null power time slots within said TDM(A)-signals and for adjusting the bias of the gate/base of said transistor according to said deviation in order to re-establish said set operating point;

wherein

the controlling unit is embodied to carry out the detecting and adjusting steps during separate ones of said detected null power time slots.

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12. (original): Power amplifier according to claim 11, wherein the controlling unit is embodied as a digital signal processor.

13. (currently amended): Transmitter, in particular a radio transmitter, comprising a power amplifier according to ~~claims 11 or 12~~claim 11.

14. (original): Transmitter station, in particular a radio transmitting base station, comprising at least one transmitter according to claim 13.

15. (currently amended): A telecommunications system, in particular a mobile radio system, comprising at least one power amplifier according to ~~one of claims 11 or 12~~claim 11.